

From boatanchors@theporch.com Thu Feb 27 11:48:16 1997
From: Norman Hammar <norm@cqg.com>
Subject: 4H4C vs 6V6GT tube
Message-ID: <9702271410.AA10532@mail.cqg.com>

I have an NC-300 receiver that shows a 4H4C tube in the schematic (voltage smoother) and yet it has a 6V6GT tube in the socket. Since I have a loud HUM, I suspect it may be bad. Is the 6V6GT tube a replacement for the 4H4C?
Thanks Norm norm@cqg.com

From boatanchors@theporch.com Thu Feb 27 11:48:16 1997
From: Bill Sorsby <bill.sorsby@dlep1.itg.ti.com>
Subject: Re: 4H4C vs 6V6GT tube
Message-ID: <199702271440.IAA04667@lesol1.dseg.ti.com>

At 08:13 AM 2/27/97 -0600, Norm Hammar wrote:

>...Is the 6V6GT tube a replacement for the 4H4C?

Hi Norm,

The 6V6 was recommended by National as a replacement for the 4H4C. The 4H4C, like many other ballast tubes, was apparently notoriously unreliable, prompting National to recommend its replacement.

This change has nothing to do with your hum. Most likely you have one or more bad electrolytic filter caps in the power supply of your radio.

Regards,
Bill Sorsby, N5BU

bill.sorsby@dlep1.itg.ti.com
Views expressed herein are no one's fault but mine.

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From boatanchors@theporch.com Thu Feb 27 11:48:16 1997

From: Randy Zelick <h2rz@odin.cc.pdx.edu>

Subject: 51J-3

Message-ID: <Pine.PTX.3.91.970227085953.6510A-100000@odin.cc.pdx.edu>

Hi folks,

I recently obtained a 51J-3. Pretty nice shape: original, well used but not abused. Eventually will have to do the R, C replacement deal, and a re-alignment but basically the set works well.

I dug up my xerox copy manual for the set which I had picked up at a swap

meet years ago, in anticipation of sometime finding the receiver to go with. Inside this manual I found a copy of a one-page article by Dallas Lankford, from 1990 (a National Radio Club reprint -- never heard of them!), on fixing what the author described as "extremely poor AGC" (would Collins agree?). The basic idea is that the time constant is too short for AM use. So Langford bridged the time constant cap with a larger one, mentioning too that this will also slow down the attack time and make the set actually worse for CW and SSB. He then refers to a more elaborate modification he published (in HSNL?) which permits fast attack and different slow release AGC time constants.

Now my observation is that the audio from this stock 51J-3 is not too bad, but does suffer from transient distortion at modulation onset, symptomatic of too slow AGC attack.

Sooooo,

1. Does anyone have a copy of the Langford more elaborate AGC mod for the 51J?
2. Does anyone have an even better mod?
3. I would also be interested if anyone has looked into improving the audio amp section to improve bandwidth, lower distortion, etc.

And lastly, this 51J-3 did not come with a top cover (so tell me something unusual) but I seem to remember in the dim past a mention that the 51J receivers do not perform properly without the top cover. Maybe some alignment (or should I write "alinement" as it is printed by Collins in the 51J-3 manual!) shifts or ????. Anyone know about this?

Thanks,

=Randy=

R. Zelick
Dept. Biology
Portland State University
P.O. Box 751
Portland, OR 97207
503-725-3086, 503-725-3888 (fax)

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From boatanchors@theporch.com Thu Feb 27 02:22:48 1997
From: n5off@w5ddl.aara.org
Subject: 70H-3 PTO specs
Message-ID: <589013@w5ddl.aara.org>

The 70H-3 covers 2.0-3.0 Mcs, 6.3 V filament/150 V B+, 10 turns.

Don't know about the other one.

73

Tom

From boatanchors@theporch.com Thu Feb 27 02:22:48 1997
From: Robert Nickels <ranickel@mwci.net>
Subject: ABC Firebottles
Message-ID: <331506CD.5852@mwci.net>

For some 50KW-class firebottle lore, check out:
<http://www.exit109.com/~jimh/wabc.shtml>

Info and pix on Seventy-Seven Double-you Ayyyyy Bee Cee's transmitters -
GE firebottle version in 1966 and how they're doing the job with
sand today. Plate reverb lives!

73, Bob W9RAN

From boatanchors@theporch.com Thu Feb 27 11:48:16 1997
From: Michael Hanz <AAFRadio@erols.com>
Subject: Aircraft Radio manuals
Message-ID: <3315D0C3.6002@erols.com>

On Wed, 26 Feb 1997 Ken Corwin wrote:

- > Don Merz recently made available some documents entitled "Radio
- > Characteristics - U.S. Navy Service Airplanes" which appears to have
- > been an appendix to a publication entitled "Aircraft Radio"
- > published by the Navy.
- > The date of these documents is unknown...

Since I originally copied the documents for Don, perhaps I can shed some more light on them. The training manual Ken referred to was probably published sometime in late 1943. I obtained it from the estate of Stu Meyer, who saved it apparently because he wrote the section on the ATC. The forward does not give a date, but does mention that it is the second revision of a similar manual (that Ray Mote was kind enough to copy for me), and that manual was first put together in 1942. Ray also provided me with what appears to be its progenitor - a Naval Research Laboratory initial edition of "Aircraft Radio", dated 1936! For the most part, they kept the same format for the later two manuals, even chapter titles!

As I said, there is no date on the appendix Ken mentions, but in the chapter on direction finders there is a similar sorting of equipment vs aircraft types, and it says that the list was current as of June 1940. Since the list is consistent with that in the appendix, one could reasonably project that the appendix reflects that same date. The last model designations listed in the appendix are also roughly consistent with contract dates Ray provided in a large database which I think is in the BA archives.

The manuals are interesting in that they have a great deal of theory on individual pieces of Fleet Air arm equipment, information not reproduced in later "sailor-friendly" training manuals with the cute cartoons but little hard engineering data. I wish I could scan them for the BA archives, but each of the three issues is over an inch thick, with double sided 8.5"x11" pages. Jack would kill me...

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73,
Mike Hanz, KC4TOS
Herndon, VA
AAFRadio@erols.com

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From boatanchors@theporch.com Thu Feb 27 02:22:48 1997
From: Karan Lee Carruth <klccarru@tenet.edu>
Subject: Allied Radio
Message-ID: <Pine.OSF.3.91.970226183202.5687D-100000@francis.tenet.edu>

Does anyone have the phone number or address for Allied Radio? I
understand that they are still in business and I need a catalog.

Thanks,

Lenox

Lenox Carruth, WA50VG
Dallas, Texas
klccarru@tenet.edu

From boatanchors@theporch.com Thu Feb 27 11:48:16 1997
From: Ben Bradley <bradley@norcross.mcs.slb.com>
Subject: re: Allied Radio, phone and web site
Message-ID: <3.0.32.19970227114029.00904450@norcross.mcs.slb.com>

I'm posting to the list, because they DO have 'vacuum tubes' (p. 356
of catalog 956, p. 357 of the most recent catalog 970), as well as many
other boatanchor-type parts.

The big phone number on the cover is: 1-800-433-5700

I got the printed catalog as well as on CDROM (and someday I'm gonna make a radio using one or two of these for dials, as was talked about on the glowbugs list...) by filling out my name and address at:

<http://www.allied.avnet.com>

Usual disclaimers apply, no connection except visited the web site, got catalogs and CDROM but no t-shirt, haven't even ordered from them.

>Date: Wed, 26 Feb 1997 18:33:40 -0600 (CST)
>From: Karan Lee Carruth <klccarru@tenet.edu>
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>Thanks,

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>Lenox Carruth, WA50VG

>Dallas, Texas

>klccarru@tenet.edu

Ben Bradley, Design Engineer

Schlumberger MCS

snail: 3155-B Northwoods Parkway

Norcross, GA 30071-1576 USA

email: bradley@norcross.mcs.slb.com

voice: 770-368-3444 ext. 3191

fax: 770-840-8614

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>Lenox Carruth, WA50VG
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Ben Bradley, Design Engineer
Schlumberger MCS
snail: 3155-B Northwoods Parkway
Norcross, GA 30071-1576 USA
email: bradley@norcross.mcs.slb.com
voice: 770-368-3444 ext. 3191
fax: 770-840-8614

From boatanchors@theporch.com Thu Feb 27 02:22:48 1997
From: "David L. Thompson" <thompson@mindspring.com>
Subject: Another rare mobile rig
Message-ID: <1.5.4.16.19970227001819.3277117e@pop.mindspring.com>

Gang,

I have a friend who dug out a Marmax mobile transmitter and VFO from his
Dad's attic. Seems to be a 6AG7 rig 80 to 10 and matching VFO. He thinks
there may be a vibro power supply and a controlled carrier modulator, but as
yet has not found it.

He found an invoice from Newark Electronics (Circa fall 1952) for the rig
but no manual or schematic. I looked at W7FG, Pete Markavage and two others
and see no Marmax listed. Probably in SAM's altho not sure if many were
made (another Meck..huh Marty).

If anyone has the schematic or manual I will pay for copy and postage.

Anyone know this rig?

Dave K4JRB

From boatanchors@theporch.com Thu Feb 27 02:22:48 1997
From: kenc@smartdocs.com (Ken Corwin)
Subject: Re: BC-342 / ATD
Message-ID: <199702262039.MAA23738@warp10.smartlink.net>

Hello, Everyone -

Don Merz recently made available some documents entitled "Radio Characteristics - U.S. Navy Service Airplanes" which appears to have been an appendix to a publication entitled "Aircraft Radio" published by the Navy. These documents indicate that an ATD transmitter (paired with an ARB receiver, an LM-7 frequency meter, a DU-1 direction finder and an RL-5 interphone amplifier) was used on SB2D-1, S03C-3 and S0R-1 aircraft, all of which had 24-volt primary electrical systems. The SB2D-1 also carried a ZB-1 homer.

The date of these documents is unknown, however 65 of the listed aircraft carried LM frequency meters, beginning with the LM, and the last iteration was the -7.

I hope this information helps.

Ken Corwin (kenc@smartdocs.com) Santa Clarita, Calif.

From boatanchors@theporch.com Thu Feb 27 02:22:48 1997
From: dfrancis@access.usa.net (Dexter Francis)
Subject: Re: BOATANCHORS digest 1291
Message-ID: <v01520d05af3a550a086d@[207.0.57.74]>

Greg DePrez asks about good new VTVM's (or FET VOM's I would assume) for under \$100. I've owned several and am in the process of buying one from a list member, and bought the RadShack unit Greg mentioned, so here's my \$.03 worth;

First - I prefer analog over digital for alignment. It's way easier to peak a circuit using an analog meter. For voltage measurements I'm schitzophrenic. It's reassuring to see three digits on the display, but frankly, in this price range I suspect

that it's
false security.

Input impedance is probably a bigger issue, as loading down an RF circuit with one of the 20kohm/volt VOM's will really put some of your readings out in the weeds. That's why I'd take a good EICO VTVM for \$35 over a fancy digital VOM, unless the VOM had FET input. (High impedance.)
Peaking an IF is an analog activity. Checking the B+ is a +/- 10% thing in my book.

Handeld vs. benchtop. Benchtop for the bench. Handheld for the field.
(nuf'said?)

I bought one of the battery operated RadShack volt/ohm/cap/diode/freq meters for about \$80 last year and haven't fallen in love with it. It's a nice piece, light weight (probably too light, as it often falls off the shelf while I'm using it) and has a 2 1/2 digit display. But given the chance to spend \$75 to \$100 on two vintage bench top units, (again like an EICO VTVM and a cap checker) I'd go for the vintage gear.

Remember, the vintage gear has already taken the depreciation hit, so you'll get at least twice as much for your money - along with the thrill of fixing it yourself (perhaps) from a good flea market buy.

As to make; Simpson, EICO or HP for commercial gear, HeathKit for kits.

Just my opinion.

-df

* CWest Tube Sales - P.O. Box 22443 SLC, UT 84122 *
* (801) 363-TUBE voice/fax, E-mail: tubes@usa.net *
* http://www.usa.net/~dfrancis/CWest_Tube_Sales.html *

From boatanchors@theporch.com Thu Feb 27 11:48:16 1997
From: John <jackiv@postoffice.worldnet.att.net>
Subject: Collins filter info.
Message-ID: <19970227082446.AAA25881@LOCALNAME>

Does anyone know what a collins filter type F 250 A 20, part no.526 9012 009 may be. I found some in a box of stuff from an estate some time ago, they surfaced in my last basement cleaning.

Thanks

Jack Iverson K0EWU

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From boatanchors@theporch.com Thu Feb 27 11:48:16 1997

From: "James F. Wood 253-7886" <WOODJ@mail.firn.edu>

Subject: Crystal(old/)

Message-ID: <C591ZWSPHBSQM*/R=FIRNVX/R=A1/U=WOODJ/@MHS>

Hi just pick up two new in the box crystals : dated 1944 for 81.55.71 for crystal unit CR1A/AR.

Put out lby North American Phillips Co, Dobbs Ferry, NY

Anyone know anything about these?

(BTW they costed my a total of .99)

Thanks jim N4ACS

woodj@mail.firn.edu

A old hippie/Vietnam vet/ASA radio op

Philosopher for Hire, will think for a BEER(and it better be cold)

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From boatanchors@theporch.com Thu Feb 27 11:48:16 1997
From: km1h@juno.com
Subject: DVM's etc
Message-ID: <19970227.083042.9887.75.km1h@juno.com>

Hello all BA tekkies.
I certainly must concur with the comments regarding the need for analog and digital instruments, they each have a niche of their own on the bench.

However I felt that having all my \$\$ tied up in one hand held digital unit was not the way to go.
The choice here was for 2 digital units:

- A Wavetek LM22A LCR meter A 3 1/2 digit instrument with excellent accuracy, a large choice of selectable ranges and measurement of dissipation factor. Bought on sale at Dayton 3 yrs ago for \$125. Stays on the bench 99% of the time.

- Elenco M-2661 A cheap generic import DVM that serves its purpose well enough for me. Has the additional feature of a transistor checker plus hFE measurements. Cost was \$40 or so a few years ago mail order. I wont be too upset if I accidentally drive over it or it falls from the tower.

Its probably just by force of habit but I almost invariably grab the Simpson 260 or Tripplett 630 when working on tube gear.

73 and keep up the great discussions....Carl KM1H

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From boatanchors@theporch.com Thu Feb 27 11:48:16 1997

From: jkh@lexis-nexis.com (John Heck)

Subject: DX-20 Problems (con't) (con't)

Message-ID: <9702271512.AA04125@beans.lexis-nexis.com>

Folks,

I hope that the many kind folks who have taken the time to respond with good advice

my request for some help with my DX-20 will forgive me for thanking them here in the

group rather than one by one and personally. I have made more progress in understand-

ing this rig. The general consensus seems to be that I'm a little too worried about

the tuning up process and that actually I'm doing OK, and I tend to agree. It's load-

ing my light bulb and I'm getting the recommend plate output, why worry? Being a nit

picker, and being new and kind of uncertain of what I'm doing, however, I think I'm

going to press on a just a little and see if I can make things just a little better.

First, I change to a 40w light bulb, as Heath uses.
Then, I tune it up to see just what settings I come up with:

CONTROL	MANUAL SEZ	I GET
Grid (0 to 6 scale)	about 2 ma	2 ma
Plate(0 to 150 scale)	about 100 ma	100 ma
OSC.(0 to 100 scale)	about 73	48
LOAD(0 to 100 scale)	about 30 (30% open)	2 (almost 100% meshed)
AMP.(0 to 100 scale)	about 40	54

If I try to reduce the capacitance of the load tuner any more than this small amount I cannot dip the plate current to 100ma or lower, no matter which way I position the amplifier tuner. Although this does get it loaded at 100ma, and I'm getting output, it still seems way too tight, especially considering the settings Heath suggests I should end up with on 80 meters.

Several suggestions have been made for things to look at. First, Gary Barrell notes that some small xmtrs have a cap shunted across the loading variable cap in the 80 meter band setting, and that this cap may be open. Yes, the DX-20 has such a shunt, adding capacitance to the circuit at 80m. If it were open it would seem to suggest why I can't DECREASE the loading cap any more than just a little, since an open cap here would remove capacitance from the circuit. Secondly, Jim Owen noted that the 500 ohm resistance and the .005 mf cap, which the schematic show shunting the meter on the grid side, but which is not on my rig NOR in the instructions, should be in the meter circuit, else it will show the *wrong* grid current and there is no return to ground from the meter circuit. He suggests that I at least furnish these components and check results. I will be making both of these checks to see if I have any problems in these areas.

Once again, thanks very much to all of you who have responded with suggestions and support. I will let the group know what I find out.

Regards,
John Heck, KC8ETS
1009 Donson Drive
Dayton, Ohio 45429
(513)865-7036(work)
jkh@lexis-nexis.com

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LOAD(0 to 100 scale)	about 30 (30% open)	2 (almost 100% meshed)
AMP.(0 to 100 scale)	about 40	54

If I try to reduce the capacitance of the load tuner any more than this small amount I cannot dip the plate current to 100ma or lower, no matter which way I position the amplifier tuner. Although this does get it loaded at 100ma, and I'm getting output, it still seems way too tight, especially considering the settings Heath suggests I should end up with on 80 meters.

Several suggestions have been made for things to look at. First, Gary Barrell notes that some small xmtrs have a cap shunted across the loading variable cap in the 80 meter band setting, and that this cap may be open. Yes, the DX-20 has such a shunt, adding capacitance to the circuit at 80m. It if were open it would seem to suggest why I can't DECREASE the loading cap any more than just a little, since an open cap here would remove capacitance from the circuit. Secondly, Jim Owen noted that the 500 ohm resistance and the .005 mf cap, which the schematic show shunting the meter on the grid side, but which is not on my rig NOR in the instructions, should be in the meter circuit, else it will show the *wrong* grid current and there is no return to ground from the meter circuit. He suggests that I at least furnish these components and check results. I will be making both of these checks to see if I have any problems in these areas.

Once again, thanks very much to all of you who have responded with suggestions and support. I will let the group know what I find out.

Regards,
John Heck, KC8ETS
1009 Donson Drive
Dayton, Ohio 45429
(513)865-7036(work)
jkh@lexis-nexis.com

From boatanchors@theporch.com Thu Feb 27 11:48:16 1997
From: Jack Harper <jharper@bs2000.com>
Subject: Effect of Mis-Matched Speaker Impedance?
Message-ID: <199702271341.GAA07733@lynx.csn.net>

Hello All...

What, in general, is the effect of using a 'modern' (8 ohms?) on a BA that expects 3.2-ohms? Will there be audio distortion? How sensitive is this? Should I use a matching transformer?

Now even more stupid question: What is the 8-ohms? Is it the impedance at audio frequencies or is it simply the ohmic resistance -- surely it is the audio frequency impedance?

All feedback appreciated to add to my meager, but slowly growing, body of BA knowledge.

Regards

Jack, KC0LR (Friend to all things Hammarlund)

Jack Harper Bank Systems 2000, Inc.
e-mail: jharper@bs2000.com 350 Indiana Street, Suite 800
voice: 303-277-1892 fax: 303-277-1785 Golden, Colorado 80401 USA

"21st Century Financial Applications"
Optical Cards for Bank, EBT, and Medical Applications
Visit our Web Page: <http://www.bs2000.com/talos> (Last Update: 960926)

1024-bit PGP crypto key with ID: 8FB07075 created 960728
Fingerprint: 75 DA 06 35 F8 3D AC EC 3A F2 7C 59 A1 11 A5 74
Key available from Public Key Servers and above Web Page

From boatanchors@theporch.com Thu Feb 27 11:48:16 1997
From: bill@skeeter.frco.com (William Hawkins)

Subject: Re: Effect of Mis-Matched Speaker Impedance?
Message-ID: <9702271531.AA19553@skeeter.bvc.frco.com>

Once again, the rated impedance of a speaker is its worst-case impedance. It's the number you need to determine the maximum power required from the amplifier and power supply for some specified sound power. But it's the volts that count.

When a microphone changes sound to electricity, it is the voltage that gets amplified. The geometry of the microphone and its load resistance determine the voltage generated by the sound power. On the other side, you deliver voltage to the speaker that is a copy of what you got from the mike (unless you filter for intelligibility or distort for some sound effect). The voice coil positions the cone in the magnetic field according to the voltage, but it takes power to move it.

An amplifier that is designed for fidelity has negative feedback to make the output voltage as close to the input voltage as it can, within the power constraint of the amp. If you hang an 8 ohm speaker on a 600 ohm output, there isn't enough power to move the cone the longer distances required for lower frequencies. If you hang a 4 ohm speaker on an 8 ohm output, you probably won't notice the difference.

The last time I put an audio generator (HP200AB with some power) and a scope to measure voltage and current on a speaker, it got down to rated impedance at low frequency resonance, and then climbed with frequency like an inductor.

Bottom line: use a transformer to get 600 ohms down to 4-8, but don't blame distortion on impedance mismatch within a factor of 10 or so.

There's no magic in speaker impedance. RF impedance is magic, but not speakers.

Regards,
Bill Hawkins bill@skeeter.frco.com

From boatanchors@theporch.com Thu Feb 27 11:48:16 1997
From: bdhall@ghg.net (Benjamin D. Hall)
Subject: Re: Effect of Mis-Matched Speaker Impedance?
Message-ID: <3315AFD4.23B1@GHG.net>

Jack Harper wrote:

> What, in general, is the effect of using a 'modern' (8 ohms?) on a BA that
> expects 3.2-ohms? Will there be audio distortion? How sensitive is this?
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Well, I don't think the effect will be all that noticeable. I've been

using both 4 and 8 ohm speakers with my 4 and 8 ohm output rigs rather interchangeable, and I never noticed the difference. But, when I was new to BA's and tried using a 4 ohm speaker on a 500 ohm output, that didn't work well. The audio was really weak and yucky.

> Now even more stupid question: What is the 8-ohms? Is it the impedance at
> audio frequencies or is it simply the ohmic resistance -- surely it is the
> audio frequency impedance?

Actually, this is a very interesting question! I designed a pair of home audio speakers when I was in college, and did a lot of research into them. Usually, speakers have a nominal impedance. If it is 8 ohms, the impedance of the speaker is approximately 8 ohms across a given frequency range. Note, that impedance of a speaker can vary greatly across the audio frequency spectrum! For instance, if I remember correctly, the 8 inch woofers I used in my home stereo have an impedance of 8 ohms nominally, about 6.7 ohms at 70 hz, and I think they climb to an impedance of 8.4 ohms at 2500 hz which is the crossover point. And, it is not linear! It is all wavy with peaks and valleys along the way.

To make matters more confusing, the DC resistance of the speaker coil is not equal to the impedance. But most of y'all knew that, 'cause of the inductance of the speaker coil. Recently, I measured the DC resistance of some 4 ohm impedance speakers and they measured about 3.2 ohms.

If you need any more speaker info, just ask! I spent about a year in college designing these speakers in my spare time, and I can babble on forever about Qth and Fr and F3 etc etc etc...

73,
Ben

--

* Benjamin D. Hall, junque collector extraordinaire. *
* Located in Houston, Texas. E-mail: BDHall@GHG.net *
"Aio, quantitas magna frumentorum est."

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Jack, KC0LR (Friend to all things Hammarlund)

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73,

Ben

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* Benjamin D. Hall, junque collector extraordinaire. *

* Located in Houston, Texas. E-mail: BDHall@GHG.net *

"Aio, quantitas magna frumentorum est."

From boatanchors@theporch.com Thu Feb 27 02:22:48 1997

From: Scott Robinson <spr@earthlink.net>

Subject: Electronic toolkits-the DVM question

Message-ID: <v03007802af3a08022b92@[153.34.139.169]>

Folks,

I read Richar Hager's postiong on this subject with interest. I would like to add another suggestion about DVM choices: Fluke 87. It has all the 8060's features, except for the dB ranges. IT costs \$335 list (and I couldn't find a discounted price). Normal operation is 3-1/2 digits (quick responding) but it can be booted as 4-1/2 digits (slower).

Another good choice is the Beckman 3030. I compared the two carefully but ultimately chose the Fluke becacuse the Beckman is always in slow, high precision mode. I'm impatient and it would have driven me nuts. It does, however, have a very useful feature: it will if you like emit an audible tone whose frequency is proportional to the reading. Result is eyes-off reading of steady tone for steady voltage or resistance, tune for highest or lowest pitch, or for noisy/intermittent stuff a sound like FSK. For people who like to watch where their hands are when HV is around, this has its adavantages. Price similar to Fluke 87.

ALso Beckman Tech 330 (now obsoldet, look for used) is an excellent meter. I've had one at work for 12 years, still working.

As this is marginally off-topic, I'll close here. I emphatically agree with Richard about having one good, accurate meter for those times when absolute accuracy is needed.

Regards,

Scott Robinson
spr@earthlink.net

"Buy a Velocette and enjoy those qualities that turn motor-cyclists into enthusiasts."

From boatanchors@theporch.com Thu Feb 27 02:22:48 1997
From: Bob Roehrig <broehrig@admin.aurora.edu>
Subject: Re: Electronic toolkits-the DVM question
Message-ID: <Pine.ULT.3.95.970226185939.21190B-100000@admin.aurora.edu>

On Wed, 26 Feb 1997, Scott Robinson wrote:

> I emphatically agree with Richard about having one good, accurate
> meter for those times when absolute accuracy is needed.

I hate to think how many meters I have gone through in 40 years. I had a Fluke and the particular model I had was problem-prone and mine was no exception. Would have cost more to fix it than it was worth. My Bench digital is an old H-P (D.C. only) and my hand-held digital is a Micronta that works just fine. I use an old Weston at work. For analog meters, I have the Simpson VTVM, an Eico FET-VM, a Triplet VOM, and a just-acquired ME70-C/PSM-6B. I can't say enough good things about this military meter. I'll never use another Simpson 260 or Triplett again!

E-mail broehrig@admin.aurora.edu 73 de Bob, K9EUI
CIS: Data / Telecom Aurora University, Aurora, IL
630-844-4898 Fax 630-844-5530

From boatanchors@theporch.com Thu Feb 27 02:22:48 1997
From: "David L. Thompson" <thompson@mindspring.com>
Subject: Elenco 77
Message-ID: <1.5.4.16.19970227004303.3307c08a@pop.mindspring.com>

Gang,

Last year at this time I was trying to figure a way to get a rare Elenco 77 to my house. Meanwhile it was sold to K2UXE. Recently I saw a post from him and asked if he still had the Elenco and sure enough one thing led to another and I have the Elenco sitting on my display table (about 5 projects down the do list).

I don't have the case (looks like a 75A type case) but will rack mount it anyway. Interesting thing about the front panel its "blue"... The advertisements in 1955 are in black and white so to see the blue color is striking. Its a pair of 807's running CW and SSB from 160 to 10. It has a (according to the literature) a stable VFO and the dial is one of the most striking of its day. It says 1Khz (kcs) readout but I can't figure out how,yet.

The rig was the brain child of W9OHM. He wrote about SSB in several articles from the late 40's including one in the Dec 1952 QST (just got these from K0AZ and they are in great shape). In that same issue is his first commercial transmitter the SS75. The SS75 looks like the baby brother. His company was Electronic Engineering in Wabash, IL not to be confused with Elenco of today. Another piece of gear he had was the Elenco Commander 4KW PEP Amp. One ad in QST (1958 or so) covered the entire page. I drooled over the Commander and the desk kilowatt but we built our own that worked quite well (my dad helped as paper route money only went so far).

Other than putting it on my display table I have not had a chance to study the rig closely. If any BAer knows anything about the rig please drop a E-mail or letter. I have fairly extensive documentation (manual, write-up, schematics) but always looking for info on these old "grand" rigs.

BTW Marty I put it right next to my Babcock MT-5B and the second A-54H I have that I plan on putting on 160 (the other A-54H is modified to 40). W9OHM has long been a SK but if someone out there really knows this rig please do contact me.

73, Dave K4JRB
thompson@mindspring.com
Early SSB and Mobile

"IF it stayed up this winter it was not big enough"

From boatanchors@theporch.com Thu Feb 27 02:22:48 1997
From: Steven Wenger <swenger@fgi.net>
Subject: Re: FS: Gates Broadcast Transmitter
Message-ID: <Pine.LNX.3.95.970226182221.7795A-1000000@um.fgi.net>

> Greetings,
> Have a Gates 500T broadcast transmitter. Runs a pair of 8333A's modulating
> a single 833A. Has been working great on 160M for over ten years. It is in
> very good condition inside and out. I have acquired an RCA that I want to
> play with, so I need the room. I am asking \$700 or best offer.
>
> 73,
> Steve KA9QLF
> Jacksonville, IL.
> (217) 243-3920
>
>

From boatanchors@theporch.com Thu Feb 27 02:22:48 1997
From: Michael Crestohl <mc@shore.net>
Subject: FS: Several ballast tubes...
Message-ID: <199702270525.AAA25777@northshore.shore.net>

Hi Gang:

While clearing up some space in the cellar I found four ballast tubes that I doubt I'll ever need, so here they are on the block.....

5T4F 6.1-7.4 Volts at 550 mA
6T4F (I have two - specs unknown)
1HF10 12-30 Volts at 150 - 165 mA

Are these worth \$20.00 to anyone? I know they are NOT the same ballasts as are used in the R-390/390A although they look very similar.

If interested please reply by e-mail.

73,

Mihael Crestohl, W1RC
mc@shore.net

From boatanchors@theporch.com Thu Feb 27 02:22:48 1997
From: k7yha@juno.com (Richard H. Arland)
Subject: FS: Small BAs

Message-ID: <19970226.224327.12207.0.k7yha@juno.com>

Gang:

Have the following left to off-load. All prices INCLUDE shipping.

Eico 315 HF RF generator \$35

Heathkit GR-64 SW RX \$40

Heathkit HW-16 XCVR \$40

Hallicrafters CRX-1 Lo-Band VHF Monitor \$35

Heathkit SB-101 & HP-23 Supply w/speaker cabinet \$200

73 rich K7SZ

From boatanchors@theporch.com Thu Feb 27 02:22:48 1997

From: Randyc3@aol.com

Subject: FS:Hammarlund HQ180

Message-ID: <970226180214_-1038492151@emout19.mail.aol.com>

I have a beautiful HQ180 with a working clock for sale. With op and service manuals. Also have matching S-200 speaker. Please E-mail for details.

Thanks

Randy

From boatanchors@theporch.com Thu Feb 27 02:22:48 1997

From: k7yha@juno.com (Richard H. Arland)

Subject: Hammarlund Insanity!

Message-ID: <19970227.032430.9783.7.k7yha@juno.com>

Gang:

The HQ-110 I am restoring is driving me CRAZY!

The rig works, but I'm having all sorts of problems aligning the thing.

160 thru 10 meters are high side injection while 6 meters is low side injection. Reading in the HQ-170 manual, when you encounter two peaks on the HF oscillator coil, the one furthest CCW is the correct tuning peak.

Now, I have tried for days to align this pig, only to become very

frustrated.

Starting with 160 meters, I set the dial on 1.8 mc, and tune the HP-606C to 1.8 mc (thru a HP-5245L counter). I then bring the HF osc coil to zero beat with the generator. Moving the dial up toward 2 mc, I find a second zero beat about 1.845 mc. I have tried to "walk" this signal down the dial by moving the dial then tuning the HF osc coil, and I can get it down to within 40 kc of 1.8 mc when it disappears (I am tuning the coils slug CW to bring this thing down the band). If I suddenly go CCW at the point where I lose the signal, it reappears and I can get it to zero at 1.8 mc, only to find that there is another signal at 1.845 mc.

IT GETS WORSE!

Finally going up to 2 mc, I reset the HP gen to 2. mc, and use the piston cap to bring the signal to zero beat. Going back down to 1.8 mc, I find that I am about 45 kc off. I do the whole thing again, bottom end then top end, and I can get no closer than 45 kc. In the end, the piston trimmer is backed all the way out of the adjustment range.

Now for the kicker: I start at 1.8 mc with the generator, zero beat the receiver to that signal, do a final adjustment on the HF osc coil, and check the linearity by moving the dial up in frequency and trying to spot the freq with the HP generator.....and the damn thing is tuning BACKWARDS!

Now this SOUNDS like I am on the wrong side of the L0. Somebody wanna tell me how to get this pig on the RIGHT side of the L0??? I have tried it using both peaks on the HF osc coil, and still cannot get things to work right. I have even tried using the piston cap to bring in the low end and the HF osc coil to tune the high end, and cannot get things to track right.

HELP!

73 rich K7SZ

From boatanchors@theporch.com Thu Feb 27 11:48:16 1997
From: Jim Garland W8ZR <4CX250B@miavx1.acs.muohio.edu>
Subject: Re: Hammarlund Insanity!
Message-ID: <v03007800af3b21bd4b95@[134.53.65.12]>

Hi Rich,

Sounds like you're having a terrible time aligning your HQ110! I'm not familiar with the conversion scheme with that particular radio, but I've had experiences similar to yours with other radios. A couple of general

observations:

First, be sure you've aligned the IF stages properly, before you begin working on the rf stages. An IF misalignment can cause seemingly weird responses in the r.f. stages. If there are two IFs, be certain you've got them both tweaked on their appropriate frequencies before starting the hf alignment.

Secondly, when you start your RF alignment, be certain to keep the signal generator level at as low a value as possible. If the level is too high, you could be driving stages into non-linearity, which could result in spurious signals that could be mistaken for the "real" signal.

Third, if you're in doubt about whether you're tuning the HF oscillator to the right frequency, then measure the oscillator frequency with a counter as you do the HF alignment. The easiest way is with a scope probe connected to the input of your frequency counter, or --better yet-- with a couple of turns of wire looped around the HF oscillator tube. You'll need to remove the probe or turns of wire when you do the final tweaking of the HF oscillator frequency -- since their presence will load the oscillator a bit --but you can get roughly on frequency. To illustrate, if the receiver is single conversion, with a 455kHz IF, then you'd tune the HF oscillator to 2.255MHz (measured on the counter) when the signal generator and receiver dial are set to 1.800MHz. Frankly, on the lowest frequency setting, I doubt that you could tune the HF oscillator to the low frequency side (1.345MHz), since there probably wouldn't be enough tuning range on the slug-tuned core.

Sometimes, it isn't possible to align a receiver at the end points, despite one's best efforts. Many of us have spent frustrating hours setting the low frequency end point, then the upper frequency point, and then trying to recorrect the shift in the low frequency, point, and then the upper again, and then on and on, with no convergence. One simply runs out of range on the trimmer caps. If you can't live with the error, then the only solution is to start changing the caps in the HF oscillator -- a procedure that could end up making the situation worse, not better, if you're not careful. With any luck, this won't be your problem. Since your receiver tunes backwards, you're probably locked in on an image or harmonic of the local oscillator.

Good luck, and let us know how you progress.

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From boatanchors@theporch.com Thu Feb 27 11:48:16 1997
From: Bill Meara <wmeara@erols.com>
Subject: Heath's FAX #
Message-ID: <199702271155.GAA08320@smtp3.erols.com>

While searching for a DX-60B manual, I came across a FAX number that will be of use to BENTONHARBOROLOGISTS around the world: Heath HQ can be reached at FAX # 1-616-925-4876. They responded quickly (by FAX) to my (WIN)FAX inquiry.

73 de N2CQR
Bill Meara
Hallicrafters, Heaths and Hammarlunds
QTH: Falls Church, Virginia, USA
Formerly of Tegucigalpa, Bilbao and Santo Domingo
wmeara@erols.com
<http://www.mindspring.com/~johnmb/billm.htm>

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<http://www.mindspring.com/~johnmb/billm.htm>

From boatanchors@theporch.com Thu Feb 27 02:22:48 1997
From: ARONGV@aol.com
Subject: Help Needed, Part 2
Message-ID: <970226193646_1746744717@emout09.mail.aol.com>

Hi Gang:

Earlier today I sent out a plea for information/schematic/tech & alignment data for the Sargent 21 MA receiver.

In that post, I indicated that the unit cosmetically was in excellent condition. But, there didn't seem to be any B+.

A schematic would have solved that problem once I put my glasses on. Turns out that if you don't have the speaker plugged in, only the filaments work.

I hope someone comes to my rescue so I will have a better chance of aligning and tweeking the 21 MA. Eventually, I suppose I can use my circuit analysis experience to solve some of the problems, but without a voltage Map/chart, etc., I'll probably never bring this thing to its full potential.

For now, it does seem to work reasonably well on all of its 7 bands, 80 kHz to 30 MHz. Someone with a merchant marine or naval radio op background would probably go nuts over this unit. See page 109 of Ray Moore's book on communications receivers, top picture.

Thanks in advance for any help forthcoming.

73s & Good Hunting!

Ron W00IZ Kansas City

From boatanchors@theporch.com Thu Feb 27 02:22:48 1997
From: "Dick Dillman" <ddillman@igc.apc.org>
Subject: I'm Back
Message-ID: <79531.ddillman@igc.apc.org>

and glad to be home...

Three weeks in Amsterdam and Hamburg, minimal BA adventures but the possible acquisition of a PBY-5A WWII amphibious aircraft!

Dick Dillman
WPE2VT W6AWO
<ddillman@igc.apc.org>
Collector of Heavy Metal:
Harleys, Willys and Radios Over 100lbs.

From boatanchors@theporch.com Thu Feb 27 02:22:48 1997
From: bjacob@iofc.com
Subject: JAMES MILLEN "GOODIES" FOR SALE << UPDATE >>
Message-ID: <199702270516.QAA14762@iofc.com>

----- Enclosure number 1 -----

: : : : : UPDATE : : : : :

I have the following James Millen Manufacturing Co equipment for sale:

PLEASE NOTE THAT I HAVE INCLUDED ASKING PRICE THIS TIME AROUND.

FREQUENCY METER SET I-129-(B)

This set consists of the following four absorption frequency meters:

Meter 1 -- 1.5 - 3.5 Mc
Meter 2 -- 3.5 - 8.0 Mc
Meter 3 -- 8.0 - 18.0 Mc
Meter 4 -- 18.0 - 41.0 Mc

Packaged in grey-painted wooden box 5.5"H X 13"W X 3.5"D.

Label on front reads:

U.S. Army

MFP FEB 50

PRICE: \$35 + shipping

The following 6 coils in the original black wrinkle finish metal stand:

Jacob Worthington
K4HJ
Conway, Arkansas, USA

From boatanchors@theporch.com Thu Feb 27 11:48:16 1997
From: dr.electron@juno.com
Subject: RE: Juno Problems
Message-ID: <19970227.020225.10334.2.dr.electron@juno.com>

Greetings;
I have seen numerous postings here regarding problems and
loss of messages with Juno E mail. I have info on preventing this;
please E mail direct " dr.electron@juno.com " and please
include your email address in the body of message.
0111 0011's <h>
Rich P
#

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include your email address in the body of message.
0111 0011's <h>
Rich P
#

From boatanchors@theporch.com Thu Feb 27 02:22:48 1997
From: Tim Richardson <tim@america.net>
Subject: Manual Needed: Gonset
Message-ID: <2.2.32.19970227020408.006f40f8@pop.america.net>

Can someone Terry K4FB with a manual? Please respond directly to him.

I have a very nice Gonset Communicator III 6 meter tranceiver and need a
manual or a copy. I have tried W7FG manuals and he doesn't have one.
Does anyone out there have one that they would like to sell or copy.
Please let me know if you do.

Thanks,

Terry Jones, K4FB
k4fb@aol.com

Tim Richardson WB4HZT Acworth, GA <tim@america.net> <http://www.america.net/~tim/>
"Those who cannot remember the past are condemned to relive it."-Santayana

From boatanchors@theporch.com Thu Feb 27 11:48:16 1997
From: Mike Warren <m_warren@compuserve.com>
Subject: MARMAX xmtr
Message-ID: <199702270859_MC2-11C7-FF9B@compuserve.com>

Hi David,

Moore's book shows one on page 99 with a picture and description:
Model MT-52 Mobile Trans; 1952-53; \$79.50; 75-10 mtrs; AM Cont. carr.
(Rothman) mod; ext. 400-600 V @100-150 ma supply; 50W pk; plug-in coils.

Remarks:

Manufactured by Marmax Electronics, Alaamogordo, NM, featuring "Rothman Modulation", a form of controlled carrier modulation, claimed to have "Broadcast Quality - High Efficiency -Less Equipment."

Looks like an interesting rig.

73,

Mike W5MAZ (in MN)
m_warren@compuserve.com

From boatanchors@theporch.com Thu Feb 27 11:48:16 1997
From: Ho4bart@aol.com
Subject: Re: MARMAX xmtr
Message-ID: <970227110933_884464896@emout13.mail.aol.com>

In a message dated 97-02-27 09:01:28 EST, m_warren@compuserve.com (Mike Warren) writes:

<< Manufactured by Marmax Electronics, Alaamogordo, NM, featuring "Rothman Modulation", a form of controlled carrier modulation, claimed to have >>

this is just the slimmest of leads, but do i not recall an article in Radio News on this system & illustrated with a full or partial schematic, likely from this xmtr, or at least very similar to it? hue miller

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From boatanchors@theporch.com Thu Feb 27 02:22:48 1997
From: rdkeys@csemail.cropsci.ncsu.edu

Subject: More thoughts on a weeceiver sucrets box regennie.....

Message-ID: <9702262140.AA102541@csemail.cropsci.ncsu.edu>

Earlier I mused.....

The weeceiver article (regen built on a sucrets lozenge box chassis) is in October 67 CQ pages 23-25. This is a neat teensieweensie set about 2 x 3 x 3 inches in size. If you like TINYTUBEGEAR you will like this one.

After some thinking, and noting that the original used a 3S4 tube and a (GROK!) 2N107 audio stage, and thinking that folks were want to try the pentode triode thingies like the 6U8, 6AN8, etc., one could easily do the weeceiver with such a tube, and run it on 90 volts or so plates. Use a small 10-turn dial knob or other 0-100 dial knob as the tuning scale, and away you go! The whole thing would be much smaller than the usual Velvet Vernier dial..... Move over Dick Tracy, the Wrist Regennie is here..... News at 11.....Batteries not included!

73/ZUT DE NA4G/Bob UP.....(:+{}.....

From boatanchors@theporch.com Thu Feb 27 11:48:16 1997

From: Ho4bart@aol.com

Subject: Re: Neat WELL BUILT classic regen receiver design found finally

Message-ID: <970227104514_1646133483@emout12.mail.aol.com>

Bob writes:

"I did get some difference when I used a 6V6 vs something like the 24 or 6SK7, in that the current through the circuits was higher giving higher effective gain at low voltages from the beam pentodes as compared to the normal RF pentodes.

H.M.: ah, so that's why a power tube is used in the detector slot. i first read abt that use years ago in Modern Radio Labs. literature & thot it was a weird idea, but this explains it.

"The best regen detector I ever found was that darn '24,

H.M.: i wonder why that would be? i'll have to remember to dig out the '24 specs and graphs & have a look.

"I find choke coupling gives me easier parts procurement than transformer coupling since I rarely find good audio coupling chokes anymore

H.M.: another possible source of hi-inductance windings is

possibly in carbon microphone to audio grid transformers, altho this maybe unrealistic to expect to find many of these around any more. also possibly using the HV winding of small low current but hi-voltage power transformers.

"I have not used recent battery tubes such as the 1 volt series so I can't compare those to others directly, in regen use. In the battery tubes I do use, such as the '01A's and '30's, I find they tend to be a bit noiser due to filament grumblings during use compared to an indirectly heated cathode tube, so I would probably stick to an indirectly heated cathode tube for the most serious regens.

H.M.: do you mean microphonics? also on the 1-v tubes, altho the maximum transconductance is much lower than the 6-v heater-cathode types, as you point out, this may not be that important. it seems to me that the shortwave receivers i have used, that used these tubes, were noticeably more stable than receivers using the usual 6SA7, 6BE6, etc. (i mean stability due to factors other than pulling by strong signals.) i would account for this by the much lower heat generated by the 1-v tubes.

also, i read in a past edition of "Lowfers Reference Manual" (or similar title..) by Ken Cornell (i believe) where he stated that the "2-ended" tubes (i.e. ones with a plate cap) yielded regen detectors that went more smoothly into oscillation. any opinion on this Bob? also, if true, whyso? would it be simply due to the better isolation between plate and grid circuits? (i.e. lower stray capacitive coupling?)

hue miller

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hue miller

From boatanchors@theporch.com Thu Feb 27 11:48:16 1997

From: w9fs@juno.com (Jerry W. Daugherty)
Subject: NEED
Message-ID: <19970227.081443.9638.1.W9FS@juno.com>

I am in need of schedmatic and manual for a communicator III

Be glad yo pay.

Jerry W. Daugherty W9FS, ex K9PFV, W4RXU, W9FTI, DL5GI.
VHF-UHF Nut. May all your blessings outweigh your needs.

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VHF-UHF Nut. May all your blessings outweigh your needs.

From boatanchors@theporch.com Thu Feb 27 11:48:16 1997
From: Bill Meara <wmeara@erols.com>
Subject: Need DX-60B Schematic
Message-ID: <199702271128.GAA06727@smtp3.erols.com>

I think I've done all I can on this rig in the "flying blind - no schematic" mode. The weekend is approaching and I could really use some more info. Anyone out there have both a DX-60B manual AND a fax machine? If you could fax me a copy of the schematic (to 703-237-1991). I could probably get this thing going. Don't go to any real trouble on this - I'll eventually get a full manual (checked with Heath - they have -60 and -60A manuals, but no -60Bs).

Thanks!

73 de N2CQR
Bill Meara
Hallicrafters, Heaths and Hammarlunds
QTH: Falls Church, Virginia, USA
Formerly of Tegucigalpa, Bilbao and Santo Domingo

wmeara@erols.com

<http://www.mindspring.com/~johnmb/billm.htm>

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From boatanchors@theporch.com Thu Feb 27 11:48:16 1997

From: km1h@juno.com

Subject: New Transmission Line Book

Message-ID: <19970227.101750.9887.86.km1h@juno.com>

Looking at page 50 of the March 97 73 Magazine I came across a New Product blurb for "Antennas and Transmission Lines" by "respected author" John Kuecken (anybody ever hear of him?) and published by MFJ (not my favorite source of anything).

At \$19.95 it may be of interest to those that cant wait for whenever Maxwells book will be republished. Who knows, it may even be a good book.

I've also been told by N6BV, a good friend, neighbor, (former National Radio Engr also) and a Sr Technical Editor at the ARRL that he is doing a complete rewrite of the Transmission Line section in the Handbook and Antenna Manual.

GL....Carl KM1H

From boatanchors@theporch.com Thu Feb 27 11:48:16 1997
From: paul Veltman <veltman@netcom.com>
Subject: Re: New Transmission Line Book
Message-ID: <Pine.3.89.9702270751.A7608-01000000@netcom15>

FWIW,

I purchased a mobile handbook from MFJ a couple of years back, and it was the WORST book that I have ever seen on the subject. Really all it was was a bunch of ads with very little if any theory or explanation. After looking at a picture of the author with this little dinky excuse of a mobile antenna on his car, then I just figured that he didn't know very much.

While I have been happy with some MFJ products, their books leave a lot to be desired. I'm not planning on buying this one.

73

Paul WA60KQ

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73

Paul WA6OKQ

From boatanchors@theporch.com Thu Feb 27 11:48:16 1997
From: leeboo@ct.net (Leon Wiltsey)
Subject: PARTS
Message-ID: <199702271351.IAA01978@blue.ct.net>

live in small town, no ba parts available.
like tubes and tube sockets, need toknow name of
mail order supplier of both tubes and tube sockets,ect.

Thank the good LORD for all that you have!!!

Leon B Wiltsey jr. (Lee)

67yr old semi disabled senior
(stroke got my balance and coordination)
play keyboard and sing
music 1920's to 60'
none of the 80"S- 90's noise

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From boatanchors@theporch.com Thu Feb 27 02:22:48 1997
From: midshires@cix.compulink.co.uk (Andrew Emmerson)
Subject: Radio Bygones
Message-ID: <memo.865185@cix.compulink.co.uk>

I would say _Radio Bygones_ is probably rather more lavish than _Electric Radio_ (although I only had a brief glimpse of that impressive publication). _RB_ addresses a slightly different market, covering classic broadcast and military receivers in depth (description, circuit diagram, etc.) plus informative articles on radio museums, radio techniques and historical incidents. It's a large format magazine (11.5 x 8.25 inches), with plenty of monochrome illustrations and a full-colour cover.

Published six times a year; annual subscription by airmail to the USA costs 23.75 pounds (approx 38 dollars) and you can pay by credit card. (The agency arrangement with an American distributor ceased last year). Telephone and fax number from USA = 011 44 1202-658474. They also publish _Morsum Magnificat_, the CW and morse magazine.

I speak as a reader of and contributor to the magazine. I think it's excellent and if you want to try before you buy, they will sell you a single issue.

73,
Andy Emmerson G8PTH.

From boatanchors@theporch.com Thu Feb 27 11:48:16 1997
From: MEC <danmec@inet.uni-c.dk>
Subject: Re: Radio Bygones
Message-ID: <Pine.3.89.9702270931.A4794-01000000@inet.uni-c.dk>

This is a super magazne, with a natural emphazise on UK equipment.
Excellent photos. Try it !

73 Rag oz8ro

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From boatanchors@theporch.com Thu Feb 27 02:22:48 1997
From: "Bill Richarz" <wricharz@transprt.com>
Subject: Ranger Schematics, Dow Key Relay
Message-ID: <19970226235333.003a4520.in@transprt.com>

Anyone have a Johnson Ranger, & Johnson Ranger II schematic they
can copy & send to me? Of course, will imburse for your trouble.
Also, looking for a 117VAC Dow Key relay, reasonable.

Thanks, de Bill, N4DH

```
=====
Bill Richarz <N4DH> ex WA4VAF      | Internet: wricharz@transprt.com
10035 Little Creek Rd.             | Packet: N4DH@W4BFB.#CLT.NC.USA.NA
Charlotte, NC 28227                 | Phone: (704) 545-9368
HomePage                             | http://www.transprt.com:80/wricharz
=====
```

From boatanchors@theporch.com Thu Feb 27 11:48:16 1997
From: Glenn Finerman <GFINER@nms.com>
Subject: Sams Photofact CB series
Message-ID: <s315554a.082@nms.com>

Hello Firebottle fans!

My quest for a Browning Golden Eagle MKIII has ended. (Thanks Tom!!)
It's presently making it's way from the midwest to New York (home of
slobby hamfest vendors with thick accents <grin>) via UPS.
I'm sure there are those of you who would feel I'm crazy for paying
what I did for an old 23 channel tube CB, so I'll just keep that bit of
information to myself! hi hi.

Expect to hear me on 10 meter AM with that signature "ping" as soon
as the band opens up. (29.000 mhz??)

Looks like I'll be needing the schematic etc, which is included in the
Sams Photofact CB series number 79 book.

Anybody have one they would be willing to part with or copy that
section for me? I've sort of been collecting the entire series in bits
and pieces for years now and have ended up with quite a few but
still need to fill in the gaps. Even if you don't have number 79, I would
be willing to purchase just a few, a partial collection or whatever
you have. I know there are a few of you folks who have no interest
in these old chicken band radios / books....soooo why not dig up that
musty old pile of books from the basement and help me out?

Thanks very much.

73.....Glenn Finerman N2BJG gfiner@nms.com

WANTED = Collins S-Line Transmitters and receivers,
TV-7 tube tester

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WANTED = Collins S-Line Transmitters and receivers,
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From boatanchors@theporch.com Thu Feb 27 02:22:48 1997
From: "Bob Ragain, 303-470-2534, RAGAIN@SEDALIA.OMNES.SLB.COM"
<RAGAIN@hubvx6.sedalia.wireline.slb.com>
Subject: Scope probe voltage ratings?
Message-ID: <970226181813.2fe000aa@hubvx6.sedalia.wireline.slb.com>

Fellow BA'ers,

A couple of nights ago I was checking for ripple on a B+ supply and got to thinking about scope probe voltage ratings. I don't have manuals for any of my scope probes (does anyone?) so there was probably a little risk making the initial measurement at that relatively high voltage.

I selected a 100X probe to measure an 800 vdc B+ circuit and had to turn the vertical scale sensitivity all the way up to maximum sensitivity to see the dc voltage at 500 v per division. The most deflection I could get was 1.6 divisions. Obviously the scope input was not being overloaded (overvoltaged) but is that a good sign that I wasn't overloading the probe too?

My question is this: knowing the attenuation factor of a probe, ie, 1X, 10X,

100X, etc, is there a general rule about what voltages that probe will handle?

Related question: Are scope probes available in even higher ratios, like 1000X?

Thanks for any comments,

Bob

Bob Ragain WB4ETT Littleton, CO
Schlumberger/Omnes Satellite Services

From boatanchors@theporch.com Thu Feb 27 02:22:48 1997
From: w7ni@teleport.com (Stan Griffiths)
Subject: Re: Scope probe voltage ratings?
Message-ID: <199702270245.SAA10232@kim.teleport.com>

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>

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>dc voltage at 500 v per division. The most deflection I could get was 1.6
>divisions. Obviously the scope input was not being overloaded (overvoltaged)
>but is that a good sign that I wasn't overloading the probe too?

Hi Bob,

If the probe you were using was a Tek P6007 (X100), it is good for 1.5 KV DC and up to 4.2 KV AC peak-to-peak. You have to derate the AC voltage as the frequency increases above 200 KHz. For example, at 10 MHz, the peak-to-peak AC rating is 2 KV. Other probe models will have other ratings and if they are Tek probes, I can look them up for you in my vast catalog collection. I also have manuals on most of them in a file somewhere.

>My question is this: knowing the attenuation factor of a probe, ie, 1X, 10X, >100X, etc, is there a general rule about what voltages that probe will handle?

I would want to look each one up to be certain.

>Related question: Are scope probes available in even higher ratios, like

1000X?

Yes. The P6013 and P6013A were X1000 and good up to 12 KV DC. The P6015, also X1000, is good up to 40 KV but it requires that the tip assembly be filled with a high voltage dielectric fluid which contains fluoro-carbons of some kind and I don't think you can get it anymore since it is alleged to destroy the ozone layer. Both of these probes, too, must be derated above 100 KHz.

I have a P6015 with all the dielectric fluid evaporated long ago. I would not hesitate to use it to 20 KV with no fluid at all in the tip.

>Thanks for any comments,

You're welcome. Anytime.

Stan w7ni@teleport.com

From boatanchors@theporch.com Thu Feb 27 02:22:48 1997
From: eb5agv@ctv.es
Subject: SP-600-JX restoration, part three
Message-ID: <1.5.4.16.19970227080015.35b78fdc@192.168.0.1>

Hello again to all of you, firebottle fans!

The SP-600 tale continues...

Yesterday I put the front panel back to the receiver. Before doing that, I had cleaned and lubed the gears and deoxygenized the potentiometers. Having looked only two days ago to the 'original' panel (with the _bad_ looking painting), I thought this was not the same receiver (add an smile here)!. My wife, who is not very fond to my BA work (perhaps I'm not the only one with this problem, hi!), told me that the receiver looked very nice and this comment has a big value for me... Only front panel parts that still needed attention were the knobs; they are all original and the only drawback is a mod consisting on an added lever in the tuning knob. I should admit that it makes the tuning smoother although it is not pretty looking. Anyway, as the lever itself is also old and the mod is well finished, I'll let it as is by now (I tell myself that I have a customized receiver...). In order to clean the knobs, I used only water and a soft shampoo. The result was excellent; as the knobs had not scratches, they looked almost like new!. By the way, I like the knob construction; it is far better than my S-line knobs, at least in the materials. Next step was the knob installation; trouble free step. Final result: good!.

The long awaited moment was approaching... After a visual inspection and

resoldering of a loose wire in a switch, I decided to fire the receiver (I'm waiting for a variac to arrive next month). The seller told me that the receiver worked and, as all his comments had proven very accurate, I had no doubt about it. I connected the antenna, then the power cord and... Nothing!!!!. Dial lights didn't shine a bit!... Big trouble!... Power down immediately!... HMMMMMMMMMMMM... Visual inspection again... Hi, another loosen wire in the dial lamps!. A bit of soldering added to solve that. Well, let's think a bit. I have not really checked if tubes glow (two much light and, as all have a metal enclosure and I was looking only for dial light, perhaps I missed something...). So, let's try again. Power plug... ON switch... Yahooo, dial lights!. Tubes seems to glow also. Nothing smokes. By the way, a bit of blue glow is seen in the 6V6 (I'm not sure now if it is a 6V6; I have not the schematics here). One minute waiting for sound... Nothing!. Alas, I forgot the speaker!. Well, nobody will know it, no problem, I'm alone 8-) . I hooked the output transformer (600 to 8 ohm) + S-line speaker which I use both for the R-390A and for the S-line (without transformer for the S-line, of course). Check again and... WORKS!. Some tuning after, I found one strong BC music station around 9400 KHz. The Bee-Gees are playing a nice song. Bandwidth set to 8 KHz. What a nice sound!. It is really the best I've never heard for AM!. It outperforms my R-390A (I think I have a new project: I will do the Kleronomos mod!). I had never heard an SP-600 before. It is really a pleasure!. After some deoxitizing of the BW switch, it performs almost perfectly (only in the 3KHz... sorry, Kc! position there is a bit of 'crssh'). 23:45 local time. Time to sleep... Sweet BA sleep!...

With the 'new looking' panel, the lubed gears and the deoxitized switches, my 'old' (about 1965 vintage) SP-600-JX is becoming fastly my favourite SWL receiver. Next step will be to hook the SPC-10 SSB adapter. But this is part of next chapter... stay tuned to this series!.

Best regards.

JOSE

73 JOSE V. GAVILA (EB5AGV / EC5AAU)
46910 Benetusser - Valencia (IM99TK)
SPAIN
*** PLEASE, VISIT MY HOME PAGE AT : ***
<http://www.geocities.com/SiliconValley/6992>
e-mail: eb5agv@ctv.es & eb5agv@amsat.org

From boatanchors@theporch.com Thu Feb 27 11:48:16 1997
From: eb5agv@ctv.es

Subject: SP-600-JX: version?

Message-ID: <1.5.4.16.19970227080937.366fd89a@192.168.0.1>

Hello (again)!

Well, I have a question about the JX version I have... Some kindly people suggested me that there is a metal label in the turret cover which has the JX version number, but mine is missing!. So, please, is there somebody who can give me clues to guess the version (special characteristics or mods on different versions)?. My only information is that in the back side of the front panel, there is a date: 'AUG 4 1965' and some components shown same manufacturing year.

Thanks!

Best regards.

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From boatanchors@theporch.com Thu Feb 27 11:48:16 1997
From: eb5agv@ctv.es
Subject: SP-600-JX: version? - part two
Message-ID: <1.5.4.16.19970227111148.2ae7152e@192.168.0.1>

Hi BA gang!

Sorry for another message about that but I'm really curious... Another characteristic of my SP-600 is that the front panel is made of aluminium (I've read somewhere that there were other made of steel or another metal). And other thing I'm not sure... what about 'black beauties'???. I don't know which kind of capacitors are... Can they be seen from the bottom of the receiver (without cover :-)), or all of them are hidden inside the RF or another shielded stage?. I have seen lots of red 'stamp' capacitors, but nothing black under the receiver chassis... Perhaps I'm lucky enough to have a 'non-black-beauties' unit?. Could this information determine or aproximate the JX model?.

Thanks and sorry for the BW!

Best regards.

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Message-ID: <1.5.4.16.199702271111148.2ae7152e@192.168.0.1>

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From boatanchors@theporch.com Thu Feb 27 02:22:48 1997
From: ARONGV@aol.com
Subject: Star Pitcher!
Message-ID: <970226194926_1713185695@emout04.mail.aol.com>

Hi Gang:

Over the years, I've received my share of equipment through UPS that wasn't damaged en route; it just wasn't fairly (or honestly) described.

We've all been there.

But today I got a surprise in the opposite direction. I made a deal with Craig Pitcher (CPITCHER@cahners.com) for a Swan 500CX that was supposed to be in "pretty nice" shape.

I knew before I ever finished unwrapping that this was going to be as near a 10 as you can get.....and it certainly is!

So if you feel like you've been "rode hard and put up wet," as we say in the Midwest, there are still guys out there who are as happy sending really nice equipment as they are in receiving it.

Have you noticed how people are quick to complain but most hesitant to say "Thanks?" Hope this offsets some of the negative posts (including mine) that have surfaced lately.

Ron W00IZ Kansas City

From boatanchors@theporch.com Thu Feb 27 11:48:16 1997
From: km1h@juno.com
Subject: Sylvania 6145 tube
Message-ID: <19970227.083042.9887.77.km1h@juno.com>

A good friend in the film industry has been asked to do a shoot for a PBS station using this 50's era computer tube. I never heard of it.

They would like to buy or borrow a backup spare ...just in case.

Can anyone help? Reply to me and I can then have him contact you direct.

Tnx....Carl KM1H

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From boatanchors@theporch.com Thu Feb 27 11:48:16 1997
From: owens@stout.atd.ucar.edu (Chip Owens)
Subject: TCS parts wanted
Message-ID: <199702271715.KAA13085@atd.atd.ucar.EDU>

Hi Gang,
I'm looking for some TCS parts as follows:

Transformer T101, the audio input transformer

Tubes: want 3 nice shiny new metal 12A6's

Thanks!
Chip Owens, NW00
owens@stout.atd.ucar.edu

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From boatanchors@theporch.com Thu Feb 27 02:22:48 1997
From: Allen Tucholski <allent@en.com>
Subject: Tek 1A1 Plugin-50Mhz FS \$25
Message-ID: <1.5.4.16.19970227000220.36c725ee@en.com>

I have a very nice dual trace Tek 1A1 Plug in excellent looking and working condition for \$25.00.
Fits the 500 series scopes 545, 547, 549....

Plus shipping.

Allen
NASA Lewis Research Center
Cleveland, Ohio

From boatanchors@theporch.com Thu Feb 27 02:22:48 1997
From: Roger Hightower <n7kt@dancris.com>
Subject: Tek Scolpe Adaptor wanted
Message-ID: <3314E565.18A4@dancris.com>

Hi all,

I picked up a Tektronix 585A scope at an estate sale, and found that it has a number of problems. Aside from tracking down the specific problem with the vertical amplifier, I'd like to be able to align the thing once I get it running.

Looking for a Type 84 adaptor for the scope. Pse e-mail direct if you have one you don't need.

--

72/73 de Roger N7KT Mesa, AZ

From boatanchors@theporch.com Thu Feb 27 02:22:48 1997
From: w7ni@teleport.com (Stan Griffiths)
Subject: Re: Tek Scope Adaptor wanted
Message-ID: <199702270246.SAA10244@kim.teleport.com>

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>

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>have one you don't need.

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Hi Roger,

You said "84 Adapter". The 84 is really a test load plugin especially made for the 580 series. It was also known by the part number "067-0523-00".

If you really meant "adapter", maybe you were thinking of the 81 or 81A

which will allow you to plug in amplifiers that normally only work in the 530 or 540 series. There are some of these around for \$20 or so.

If the vertical has a problem, I would look for a shorted 7788 in the output. This is a common problem with early 585A scopes and 585s that have had their vertical output stage modified to use 7788s. There is a modification to cure the 7788 shorting problem and since 7788s are rather expensive, I suggest you install the mod if it has not already been done in your instrument. Later instruments were modified during production so they don't need it. If you tell me the serial number, I can tell you if you might need the mod (it could have already been installed by the previous owner). If you need a 7788, I think Ben may still have some.

Stan w7ni@teleport.com

From boatanchors@theporch.com Thu Feb 27 11:48:16 1997
From: JIM_ALLEN@HP-Cupertino-om5.om.hp.com
Subject: Turning List Off
Message-ID: <H000030e097b4e4c@MHS>

Item Subject: cc:Mail Text

I'm not going to be around for the month of March, so I need to find out how to turn Boatanchors off so my E-Mail doesn't overflow. In addition, how does one turn it back on? Can someone help?

Thanks,

Jim

KQ6LB

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From boatanchors@theporch.com Thu Feb 27 11:48:16 1997
From: dr.electron@juno.com
Subject: RE: WABC
Message-ID: <19970227.020225.10334.4.dr.electron@juno.com>

Greetings;
Bob, thanks for WABC url.

" Cousin Brucie "

From boatanchors@theporch.com Thu Feb 27 11:48:16 1997
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